

a correction filter that compensates an output signal of the pre-distorter kernel based on the frequency compensation coefficient,

an instantaneous power measuring unit that measures an instantaneous power of the input signal, and

an average power measuring unit that measures an average power of an output signal of the instantaneous power measuring unit.

2. Canceled

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3. (Withdrawn) The apparatus of claim <sup>1</sup>~~2~~, wherein the <sup>first</sup> look-up table includes a plurality of aligned tables that discriminate a plurality of coefficients by average powers.

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4. (Withdrawn) The apparatus of claim 3, wherein the <sup>first look-up</sup> table includes a plurality of blocks that store respective temperature and power/phase compensation coefficients which are discriminated based on instantaneous powers.

5-6. Canceled